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# Water Supply Outlook For Wyoming



SOIL CONSERVATION SERVICE  
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

STATE ENGINEER of WYOMING

AS OF  
MAR. 1, 1980

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: THE SNOTEL PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON. THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.*

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



# **WATER SUPPLY OUTLOOK FOR WYOMING**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*  
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|||||  
*In Cooperation with*  
**GEORGE L. CHRISTOPULOS**  
STATE ENGINEER  
STATE OF WYOMING

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A TRIBUTE TO GEORGE W. PEAK.....

WYOMING STATE SNOW SURVEY SUPERVISOR 1953-74

*Stopping by Woods on A Snowy Evening.....*

*The woods are lovely, dark and deep,  
But I have promises to keep,  
And miles to go before I sleep,  
And miles to go before I sleep,*

----Robert Frost



Former Wyoming Snow Survey Supervisor, George W. Peak, died February 15, 1980 at Natrona County Memorial Hospital, Casper, Wyoming, following a three-month illness.

George retired as Snow Survey Supervisor in 1974. He was a pioneer in the field of snow surveys--first carrying out that type of work under private contract for a group of Montana ranchers in the 1930's. Later he did similar work for the Forest Service and Grazing Service (the forerunner of BLM). During World War II he served in the South Pacific in the U. S. Navy. He began his SCS career in Bozeman, Montana, in 1950 and transferred to Casper in 1953.

As the first Wyoming Snow Survey Supervisor, he conducted the snow survey and water supply forecasting program for the state, expanded existing networks and developed streamflow forecasts for numerous Wyoming streams. He researched the effect of evaporation and sublimation losses to the snowpack and developed formulae for these losses for use in streamflow forecasting.

After his retirement, he and his wife, Maxie, moved to a new home they built near Alta, Wyoming near the Grand Targhee Ski area.



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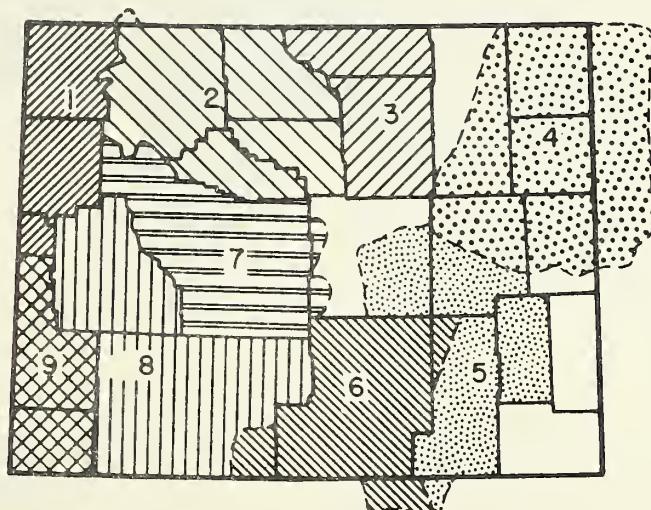
Water Supply Outlook by Major Watershed Areas

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- Area 2 Bighorn Basin
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- Area 5 Lower North Platte River Watershed
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Basic Data Supplement 1 - Snow data

Basic Data Supplement 2 - Precipitation data

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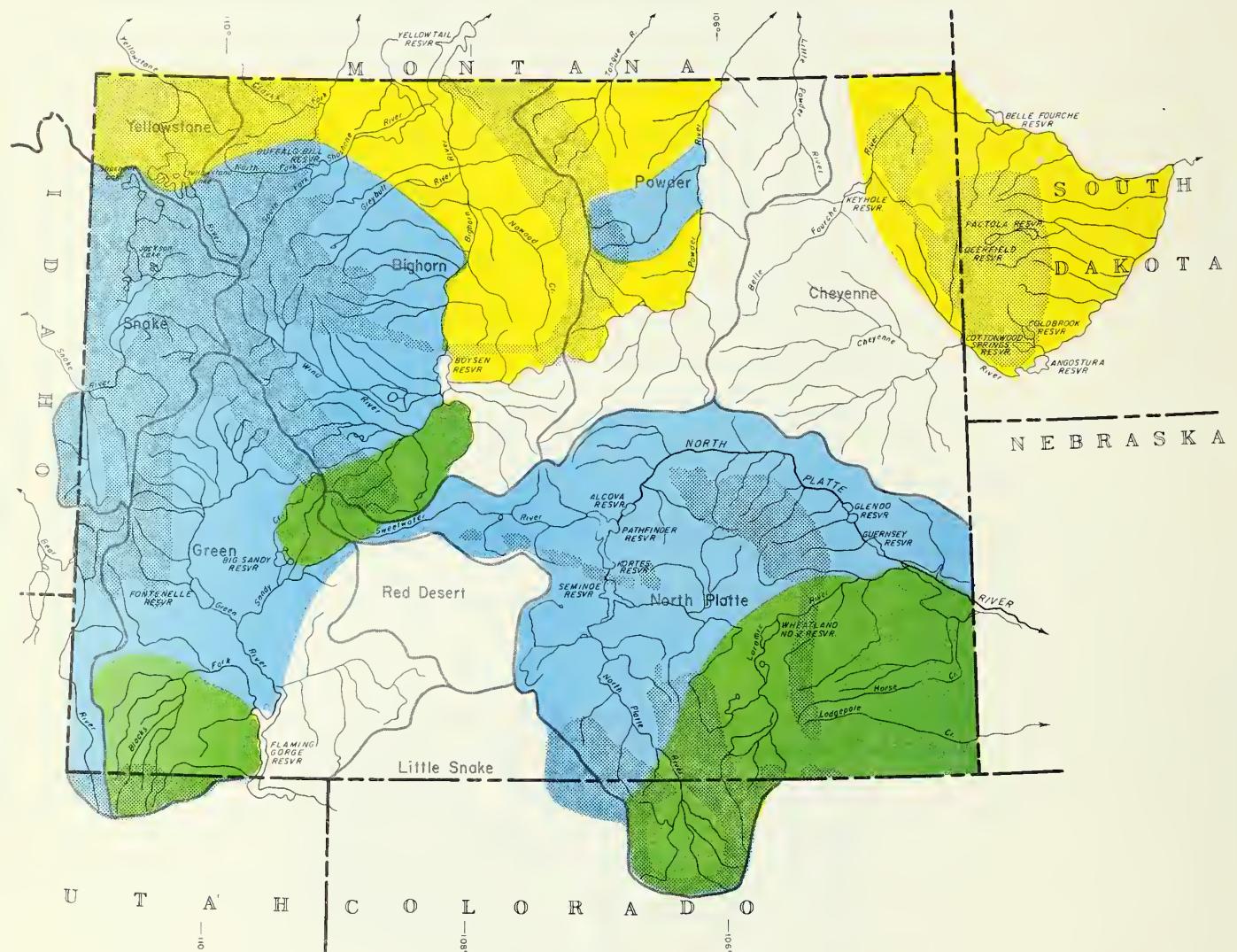


WATERSHED AREA LOCATIONS

# PROSPECTIVE WATER SUPPLIES FOR WYOMING SPRING AND SUMMER PERIOD

March 1, 1980

50 0 50 MILES  
SCALE 1: 4,250,000



**FORECAST STREAM FLOW**  
In Percent of 1963-77, 15 Year Average

Below 80%

20% 180%

100.0%

ABOVE: VEGAS

NOT Forecast or



## WYOMING SUMMARY

as of  
MARCH 1, 1980

## SNOWPACK

Wyoming snowpack compared to average on March 1 has improved slightly (about 1%) since February 1. The North Platte basin is 24 percent above normal. Several smaller watersheds boast even higher amounts, i.e., Henry's Fork (71% above normal), Black's Fork (54% above normal), both in the southwestern corner of the state. The Little Popo Agie is 36 percent above normal. Snowpacks in the rest of the state are near to below normal with most deficient areas noted in the Madison, Yellowstone, Tongue, Powder, and Black Hills drainages.

## STREAMFLOW

Prospects for summer streamflow are excellent in southeastern Wyoming. Forecasts are as high as 26 percent above normal in this area. Several smaller drainage areas are forecast at even higher than normal flows, i.e., Little Popo Agie River (34%) and the Black's Fork (28%), and Henry's Fork (35%).

Streamflows are expected to be 20-30 percent below normal in many northern Wyoming streams.



...continued next page

## PRECIPITATION

Low elevation precipitation for February was generally above normal in the East and below normal in the West with exception for above normal amounts in the Green River basin. Little or no precipitation was recorded for the whole month in the Bighorn Basin and the Red Desert region.

Seasonal low elevation precipitation continues to be well above normal in the south half of the state while northern Wyoming has received mostly 80 to 90 percent of normal. However, the extreme northwest and northeast corners of the state report only 55 to 75 percent of normal since the water supply season began on October 1. The southeast corner of the state has been literally snowed under this season with two to four hundred percent of normal. Cheyenne has received nearly eight inches of water (7.88) with 93 inches of snow. Normal water content for this same period would be about two inches (1.98). The all time record snowfall for a year there is 100.8 inches.

## RESERVOIR STORAGE

March 1 volumes of stored water in 12 of Wyoming's largest reservoirs is eight percent above normal. The reservoirs are currently holding 58 percent of the usable capacity. The North Platte reservoir system remains high with 21 percent higher than usual volumes.

Forecasts prepared for this bulletin represent cooperative efforts of the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to water users and managers.

# WATER SUPPLY OUTLOOK

## FOR THE CONSERVATION DISTRICTS IN THE

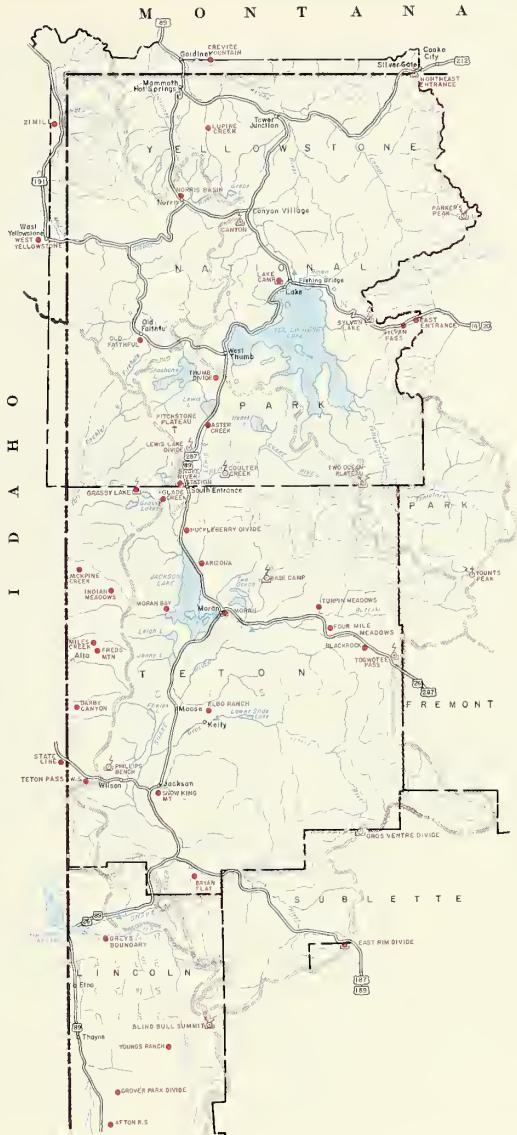
## SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS

## IN WYOMING

MARCH 1, 1980



LOCATION MAP



### YOUR WATER SUPPLY

SNOWPACKS REMAIN AS LAST MONTH -- BELOW NORMAL IN THESE BASINS. PALISADES RESERVOIR INFLOW IS FORECAST AT 84% OF NORMAL WITH THE YELLOWSTONE BEING LOWEST AT 72% OF NORMAL. RESERVOIR STORAGE AT PALISADES IS AVERAGE WHILE JACKSON LAKE IS 11% UNDER THE AVERAGE.

# SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET
	Thousand Acre Feet	Percent of Average		Last Year **
Yellowstone River at Yellowstone Lake Outlet	620	72	Apr-Sept	636
Snake River near Moran (1)	750	83	Apr-Sept	751
Snake River above Palisades near Alpine (1)	2250	82	Apr-Sept	2272
Snake River at Heise (2)	3450	81	Apr-Sept	3690
Pacific Creek at Moran	145	80	Apr-Sept	--
Greys River above Palisades	350	87	Apr-Sept	323
Salt River above Palisades near Etna	330	81	Apr-Sept	280
Palisades Reservoir Inflow (1)	3250	84	Apr-Sept	3174

(1) Observed flow plus change in storage in Jackson Lake.

(2) Observed flow plus change in storage in Jackson Lake and Palisades Reservoir.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

\* Average contains less than 15 years

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Madison (WY only)	4	78	73
Yellowstone (WY only)	12	84	77
Snake abv Jackson	12	79	85
Pacific Creek	3	80	75
Buffalo Creek	6	82	82
Gros Ventre River	3	77	78
Hoback River	7	69	84
Greys River	4	87	94
Salt River	5	87	93

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Grassy Lake	15.1	11.5	12.8	10.6
Jackson Lake	624.4	547.8	558.6	615.5
Palisades	1200.0	909.3	987.9	903.6

+ 1963-1977 period.

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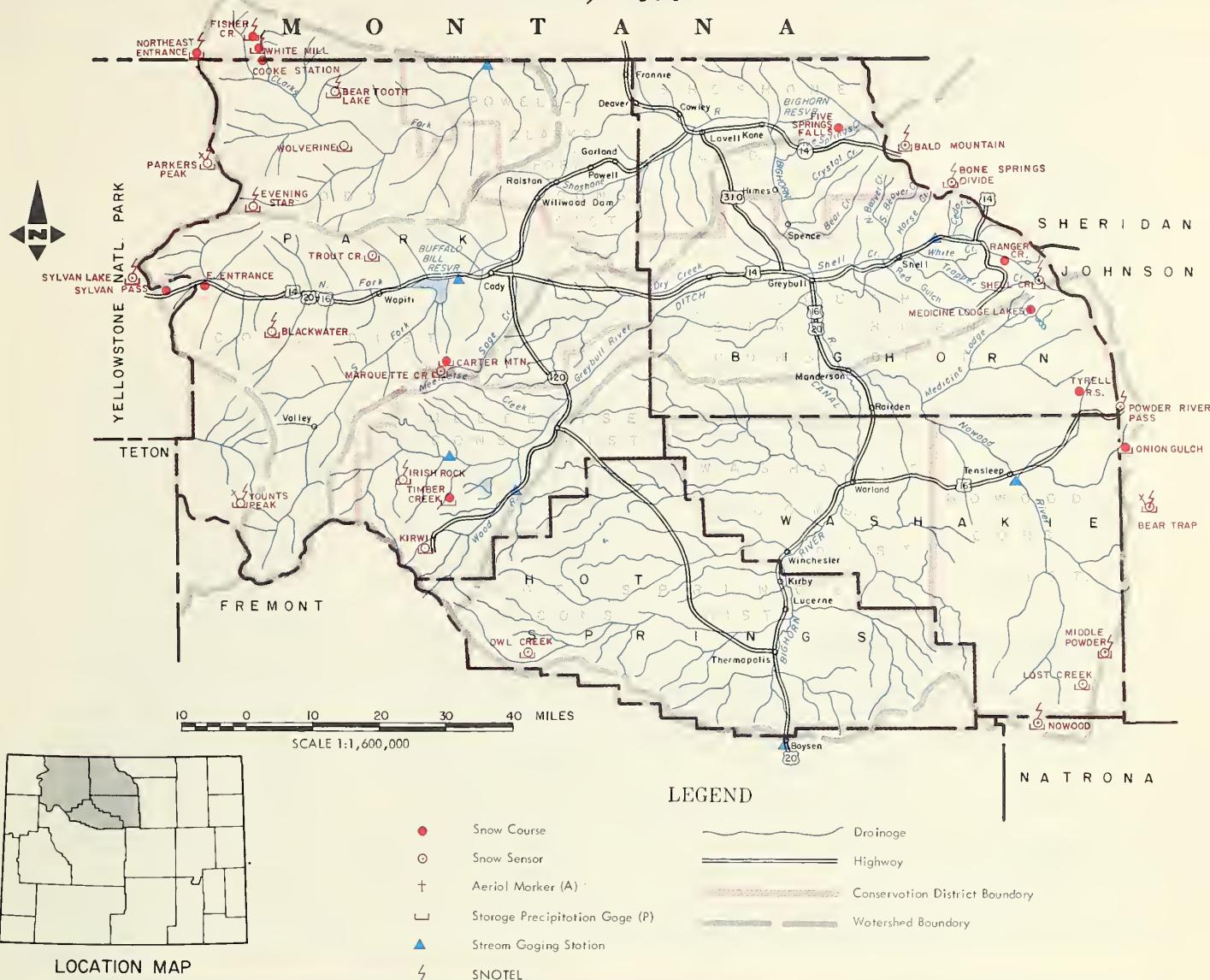


# FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE BIGHORN BASIN IN WYOMING

MARCH 1, 1980



## YOUR WATER SUPPLY

MOUNTAIN SNOWPACKS CONTINUE TO BE BELOW NORMAL AND WITHOUT HIGHER THAN AVERAGE SNOWFALLS FOR THE REST OF THE SEASON, THE RUNOFF WILL BE LOWER THAN USUAL. FORECASTS FOR SUMMER FLOWS RANGE FROM 30% BELOW ON SHELL CREEK TO 12% BELOW NORMAL ON THE SOUTH FORK OF THE SHOSHONE. BUFFALO BILL RESERVOIR IS SLIGHTLY BELOW AVERAGE.

# BIGHORN BASIN

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST THousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year **	Average +
Wind River below Boysen (1)	1193	100	Apr-Sept	903	1193
Tensleep Creek near Tensleep	60	68	Apr-Sept	-	88
Medicine Lodge Creek near Hyattville	15.9	69	Apr-Sept	-	23
Shell Creek near Shell	55	70	Apr-Sept	78	79
Greybull River at Meeteetse	185	82	Apr-Sept	153	226
Shoshone River below Buffalo Bill Dam (2)	720	83	Apr-Sept	654	864
Clarks Fork near Belfry	460	71	Apr-Sept	-	644
South Fork Shoshone River near Valley	250	88	Apr-Sept	201	284
Nowood River near Tensleep	50	70	May-Sept	-	71

(1) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Buffalo Bill Reservoir and diversion to Heart Mountain Canal.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Clarks Fork	6	76	78
Shoshone	5	85	84
Nowood	4	67	64
Shell	4	66	63

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Boysen	549.9	313.0	308.2	311.5
Buffalo Bill	373.1	166.2	176.5	173.3
Bighorn	1356.0	881.4	839.5	527.8
Upper Sunshine	53.0	- No Report -		
Lower Sunshine	58.9	- No Report -		

## SNOW

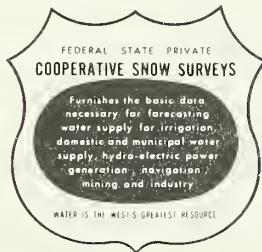
DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST REC.	
		Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	Last Yr.
Bald Mountain	3/02	44	10.6	18.1	19.3
Bear Trap Aerial	- No Report -	-	-	6.9	7.9
Bone Springs Divide	3/02	43	10.7	16.0	15.9
Carter Mountain	2/28	18	4.4	4.4	3.7
Cooke Station	2/29	51	13.7	19.3	18.0
East Entrance	3/01	33	9.0	10.7	9.7
Fisher Creek	2/29	85	25.3	33.3	34.3
Five Springs Falls	2/28	15	3.1	5.9	7.3
Marquette Creek	2/27	21	7.2	5.8	-
Medicine Lodge Lakes (E)	3/01	-	6.3	11.5	9.9
Middle Powder	3/02	25	6.0	6.4	9.7
Northeast Entrance	3/01	25	5.9	10.6	9.1
Onion Gulch (E)	3/01	-	5.2	7.4	7.8
Owl Creek	2/28	19	3.8	3.5	3.9
Powder River Pass (E)	3/03	-	6.6	10.8	10.2
Ranger Creek	3/02	24	5.8	8.5	8.7
Shell Creek (E)	3/01	-	8.3	11.3	12.5
Sylvan Pass	3/01	39	10.0	11.6	12.2
Timber Creek	2/26	11	2.0	3.5	2.4
Tyrell Ranger Station	- No Report -	-	8.0	7.5	
White Mill	2/29	66	18.8	25.0	25.0
Wolverine	2/27	36	9.7	15.8	10.7
Younts Peak Aerial	2/28	51	15.3	16.2	19.4

(E) Current snow water content is estimated

+ 1963-1977 period

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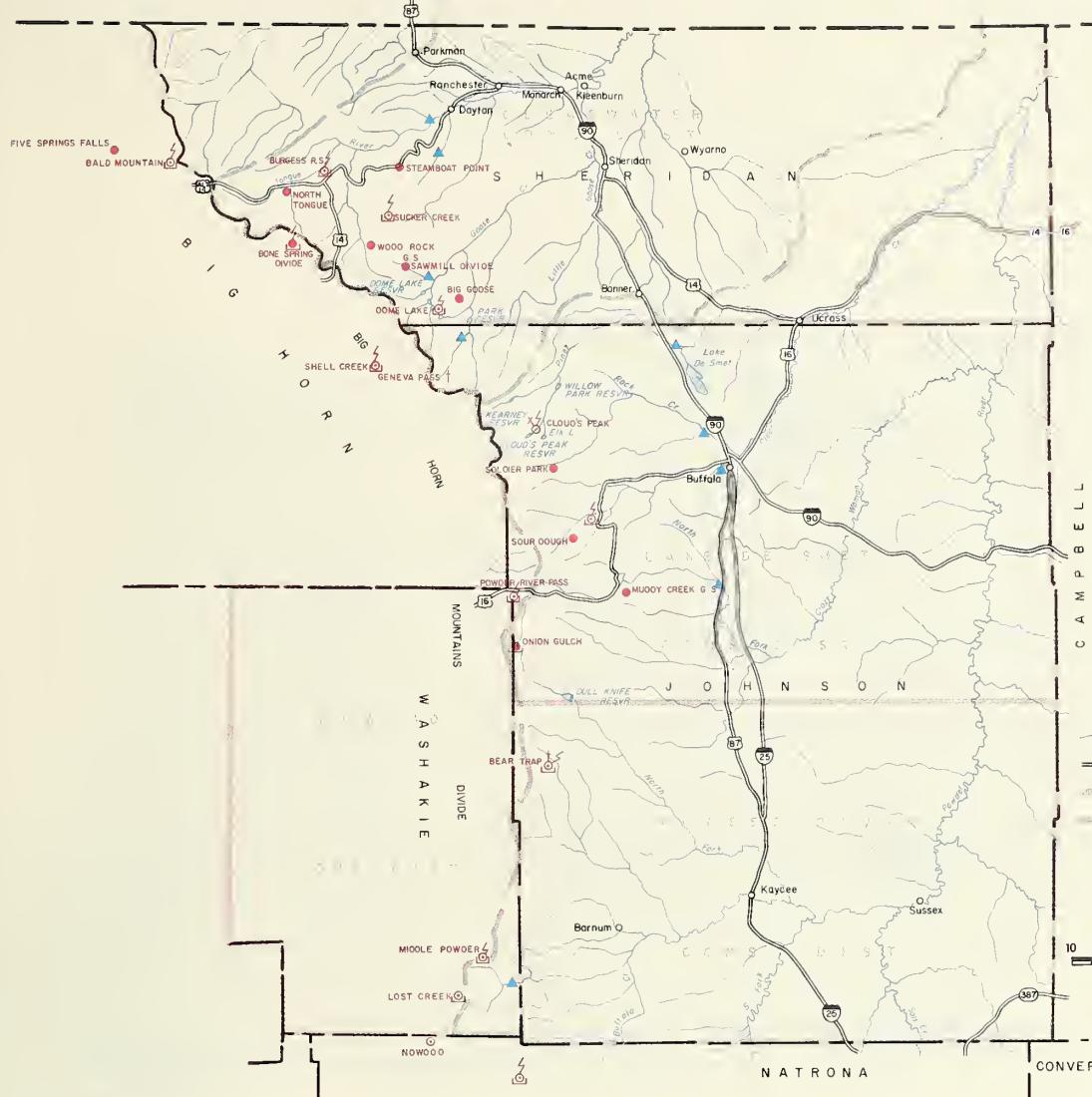
"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE POWDER AND TONGUE WATERSHEDS IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE  
WATER SUPPLY OUTLOOK

MARCH 1, 1980

## MONTANA



LOCATION MAP



## LEGEND

- SNELT
- Snow Course
- Snow Sensor
- ⊕ Aerial Marker (A)
- Storage Precipitation Gage (P)
- ▲ Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary

SCALE 1:1,250,000

## YOUR WATER SUPPLY

LOWER THAN USUAL SNOWFALLS IN FEBRUARY HAVE RESULTED IN MARCH 1 SNOWPACKS THAT ARE STILL BELOW NORMAL. FORECASTS REFLECT THIS CONDITION WITH ROCK CREEK HIGHEST AT 8% BELOW NORMAL AND THE NORTH FORK POWDER RIVER LOWEST AT 30% BELOW NORMAL.

# POWDER AND TONGUE RIVER WATERSHEDS

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average +
Tongue River near Dayton	100	78	Apr-Sept	78	129
Middle Fork Powder River near Barnum	15.9	72	Apr-Sept	11.3	22
North Fork Powder River near Hazelton	7.5	70	Apr-Sept	9.3	10.7
Clear Creek near Buffalo	35	90	Apr-Sept	44	39
Rock Creek near Buffalo	24	92	Apr-Sept	17	26
Piney Creek at Kearny	48	84	Apr-Sept	34	57

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

\* Less than 15 years of record.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Tongue River	9	75	71
Goose Creek	3	79	75
Clear Creek	4	89	87
Crazy Woman Creek	2	65	66
Powder River	6	86	78

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
- No Reservoir Data -				

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	THIS YEAR		PAST REC.	
			Water Cont (In.)	Last Yr.	Ave +	Water Content (inches)
Bald Mountain	3/02	44	10.6	18.1	19.3	
Bear Trap Aerial	- No	Report	-	6.9	7.9	
Big Goose	3/02	25	5.8	6.1	6.2	
Bone Spring Divide	3/02	43	10.7	16.0	15.9	
Burgess Ranger Station	3/02	24	5.1	6.8	7.1	
Cloud Peak Aerial (E)	3/01	-	8.9	6.8	9.6	
Dome Lake	3/02	28	6.1	8.1	8.2	
Five Springs Falls	2/28	15	3.1	5.9	7.3	
Geneva Pass Aerial	- No	Report	-	12.1	14.5	
Middle Powder	3/02	25	6.0	6.4	9.7	
Muddy Creek G.S.	- No	Report	-	4.3	2.8	
North Tongue	3/02	35	8.4	12.3	11.5	
Onion Gulch (E)	3/01	-	5.2	7.4	7.8	
Powder River Pass (E)	3/03	-	6.6	10.8	10.2	
Sawmill Divide	3/02	35	7.5	10.3	-	
Shell Creek (E)	3/01	-	8.3	11.3	12.5	
Soldier Park (E)	3/01	-	4.4	5.4	4.6	
Sour Dough (E)	3/01	-	6.0	6.2	5.5	
Steamboat Point	3/02	23	5.7	7.2	6.8	
Sucker Creek	3/02	30	7.0	8.6	11.3	
Woodrock G.S.	3/02	29	5.7	7.7	9.1	

(E) - Current data are estimated

A - Aerial stadia marker. Water content estimated. + 1963-1977 period

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**WATER SUPPLY OUTLOOK  
FOR THE CONSERVATION DISTRICTS IN THE  
BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS  
IN WYOMING AND SOUTH DAKOTA**

## LEGEND

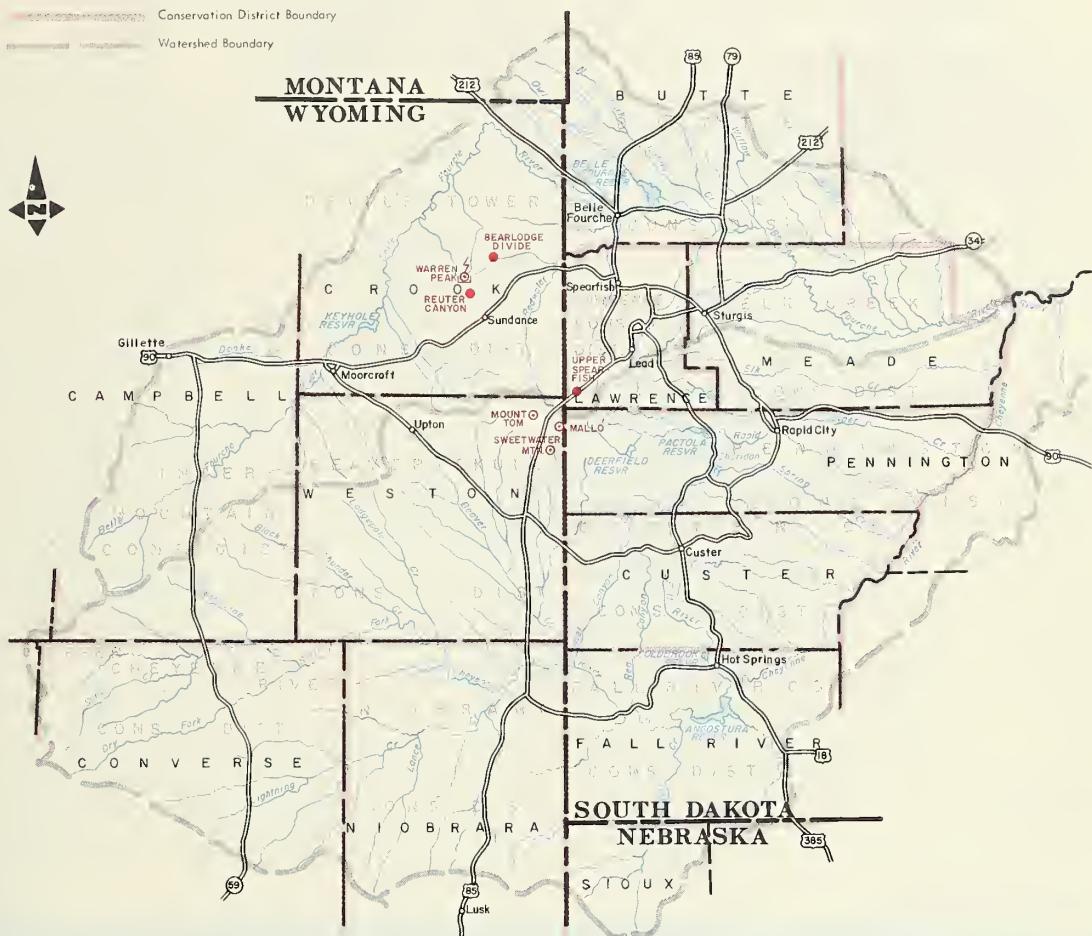
- Snow Course
- Snow Sensor
- † Aerial Marker (A)
- Storage Precipitation Gage (P)
- ▲ Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary

MARCH 1, 1980

10 0 10 20 30 40 MILES  
SCALE 1:1,000,000



LOCATION MAP



## YOUR WATER SUPPLY

DEFICIENT SNOWPACKS CONTINUE TO PREVAIL IN THESE WATERSHEDS (38% BELOW NORMAL). ESTIMATES OF SUMMER RUNOFF ARE LIKEWISE WELL BELOW NORMAL ASSUMING AVERAGE SNOWFALLS AND SPRING RAINS FOR THE REST OF THIS SEASON. RESERVOIR STORAGE IS NORMAL FOR MARCH 1.

# BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average +
- No forecasts for this area -					

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Belle Fourche	3	57	63

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Keyhole	190.4	138.1	148.1	120.6
Belle Fourche	185.2	96.0	133.7	125.8
Angostura	86.2	84.7	80.8	64.2
Deerfield	15.1	14.7	15.1	14.1
Pactola	55.0	52.6	53.0	50.0
Shadehill	81.5	N.R.	52.5	48.2

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
	Last Yr.	Ave.	+	
Bearlodge Divide	3/05	4	0.4	3.9
Mallo Pillow	2/29	-	4.3	8.4
Mount Tom Pillow	3/03	-	0.4	6.4
Reuter Canyon	3/05	28	7.4	10.3
Sweetwater Mtn. Pillow	2/29	-	3.4	6.8
Upper Spearfish	- No Report	-	-	7.4
Warren Peak	3/05	23	4.6	7.4
				8.7

+ 1963-1977 period

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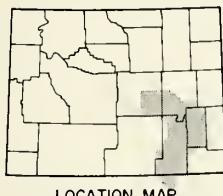


"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE LOWER NORTH PLATTE RIVER WATERSHED IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

MARCH 1, 1980

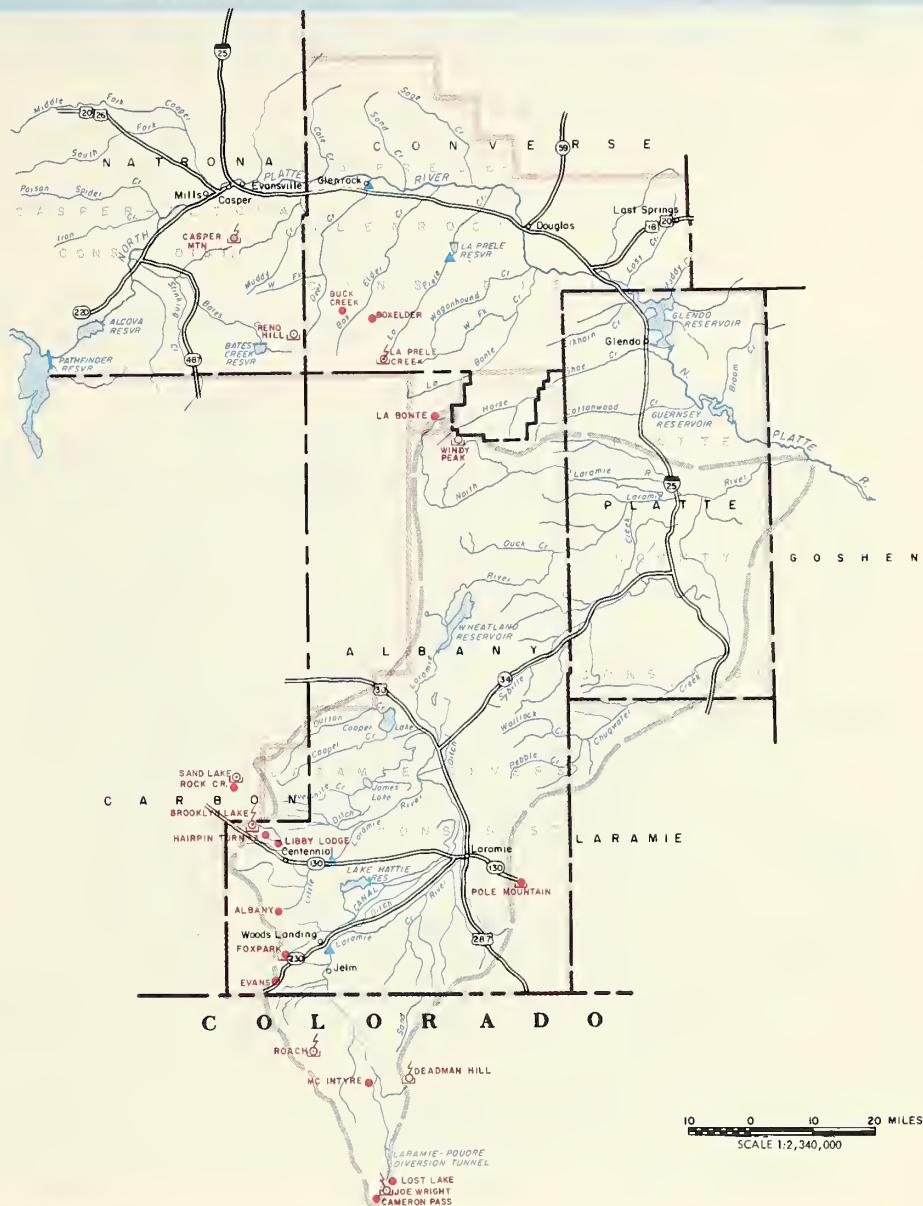


LOCATION MAP



## LEGEND

- ⚡ SNOTEL
- Snow Course
- Snow Sensor
- Storage Precipitation Gage (P)
- ▲ Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary



## YOUR WATER SUPPLY

ALL SNOWPACKS ARE ABOVE AVERAGE IN THIS AREA PREDICTING EXCELLENT SUMMER WATER SUPPLIES. THE LITTLE LARAMIE RIVER IS FORECAST HIGHEST AT 26% ABOVE NORMAL. STORED WATER VOLUMES IN RESERVOIRS ARE WELL ABOVE NORMAL FOR MARCH 1.

# LOWER NORTH PLATTE RIVER WATERSHED

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year **	Average +
North Platte River near Sinclair	850	125	Apr-Sept	853	670
Deer Creek at Glenrock	53	106	Mar-July	13.7	50
LaPrele Creek near Douglas (Ab. Reservoir)	35	117	Apr-July	8.8	30
Laramie River & Pioneer Canal near Woods (1)	155	124	Apr-Sept	160	125
Little Laramie River near Filmore	78	126	Apr-Sept	94	62

(1) Observed flow plus transbasin diversions from North Platte River Basin to Cache La Poudre River Basin in Colorado.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Upper Laramie	9	104	127
Little Laramie	4	87	132
Laramie River	13	98	129
Lower North Platte	4	131	117
North Platte above Laramie	23	95	122
Deep & LaPrele Creeks	4	131	117

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Seminole	1010.5	469.3	399.6	393.7
Pathfinder	1015.9	751.0	678.7	575.9
Alcova	30.7	1.2	2.3	0.8
Glendo	783.7	429.5	386.0	389.0
Guernsey	45.2	9.4	9.2	11.9
Wheatland #2	98.9	52.5e	44.8	45.5

## PROJECT WATER OWNERSHIP

North Platte Project	1016.1	708.6	709.2	-
Kendrick Project	1201.6	844.8	678.3	-
Glendo Project Users	454.3	149.7	130.4	-

e estimated figure

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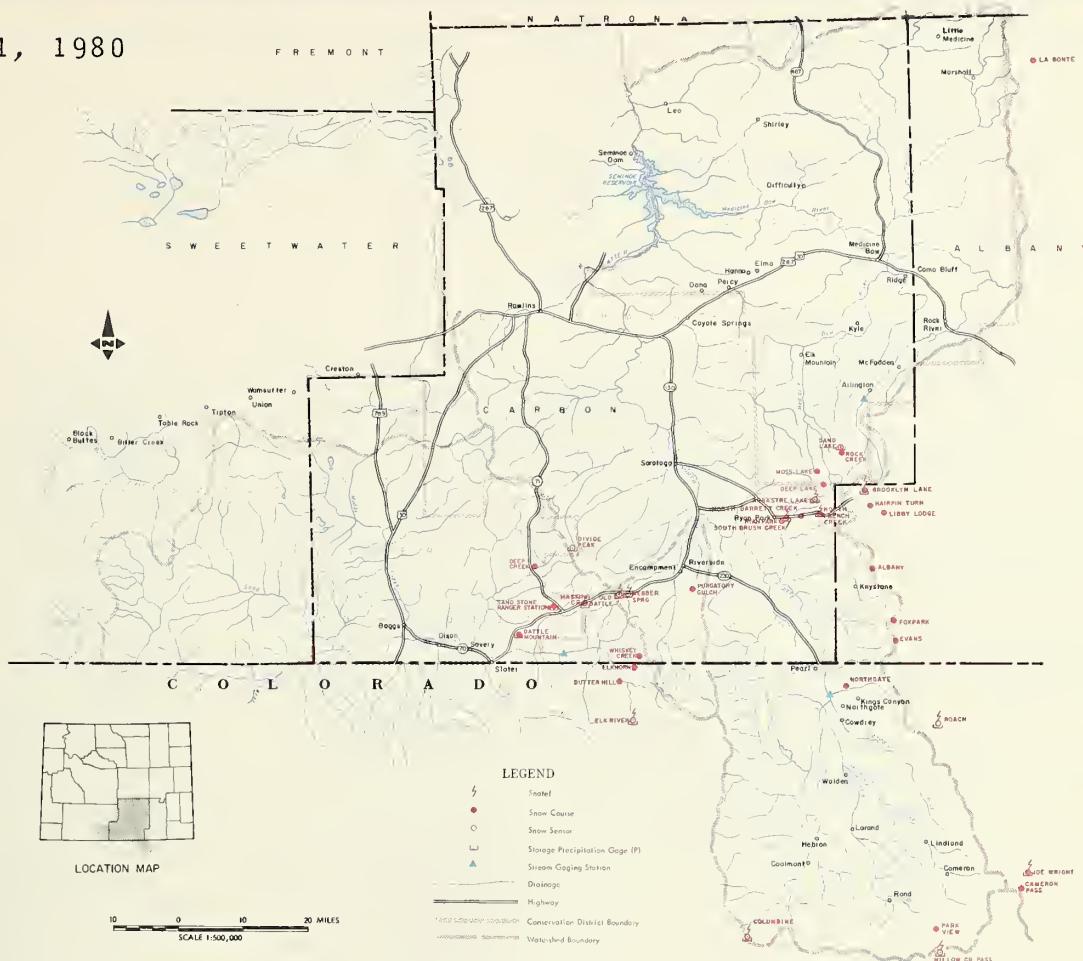
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"The Conservation of Water begins with the Snow Survey"

**WATER SUPPLY OUTLOOK  
FOR THE CONSERVATION DISTRICTS IN THE  
UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS  
IN WYOMING**

MARCH 1, 1980



## YOUR WATER SUPPLY

SUMMER STREAMFLOW IS EXPECTED TO BE WELL ABOVE AVERAGE THROUGHOUT THIS BASIN (15 TO 26% ABOVE NORMAL). ALL SNOWPACKS ARE VERY GOOD WITH SOME AS HIGH AS 39% ABOVE NORMAL. RESERVOIR STORAGE AT SEMINOE IS 19% ABOVE AVERAGE.

# UPPER NORTH PLATTE RIVER AND LITTLE SNAKE RIVER BASINS

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year**	Average +
North Platte River near Northgate	300	126	Apr-Sept	376	238
North Platte River near Sinclair	850	125	Apr-Sept	853	680
Encampment River near Encampment	175	115	Apr-Sept	209	152
Rock Creek near Arlington	72	124	Apr-Sept	63	58
Little Snake near Dixon	375	117	Apr-Sept	349	320
Little Snake near Slater, Colo.	185	120	Apr-Sept	186	154

\*\* Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF		Last Year	Average +
		Last Year	Average +		
Upper North Platte	15	97	124		
Encampment	3	76	121		
Brush Creek	3	128	139		
Med. Bow & Rock Creeks	4	84	117		
N. Platte ab Sinclair	19	93	122		
N. Platte ab Laramie R.	23	95	122		
Little Snake River	2	82	119		

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Seminoe	1010.5	469.3	399.6	393.7

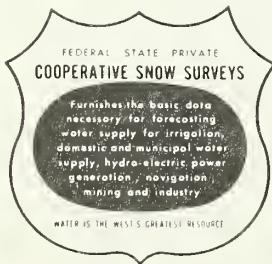
DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
		Last Yr.	Ave.	+
Albany	2/25	57	18.0	18.2
Battle Mountain	2/26	41	10.6	11.7
Brooklyn Lake	2/27	68	22.8	26.3
Butter Hill	- No Report -	-	15.8	-
Cameron Pass	2/25	70	22.2	26.7
Deep Creek	- No Report -	-	16.9	-
Deep Lake	2/26	108	35.4	43.2
Elkhorn	2/26	80	23.1	-
Elk River	2/28	65	19.2	19.7
Evans	2/28	42	12.2	11.1
Foxpark	2/26	33	9.4	7.7
Hairpin Turn	2/27	58	19.4	23.5
Haskins Creek	- No Report -	-	38.6	-
LaBonte	3/01	29	7.9	7.4
Libby Lodge	2/27	42	13.6	17.2
Moss Lake	2/26	76	22.6	29.2
North Barrett Creek	2/29	73	20.8	19.0
North French Creek Pillow	2/29	-	34.8	22.3
Old Battle	3/03	102	33.1	43.7
Purgatory Gulch	2/26	45	11.7	12.6
Rock Creek	2/26	85	28.2	30.7
Ryan Park	2/29	41	10.4	10.4
Sandstone Ranger Station	2/28	52	14.7	18.4
Webber Spring	3/03	75	22.5	32.5
Whiskey Creek	- No Report -	-	-	-

+ 1963-1977 period

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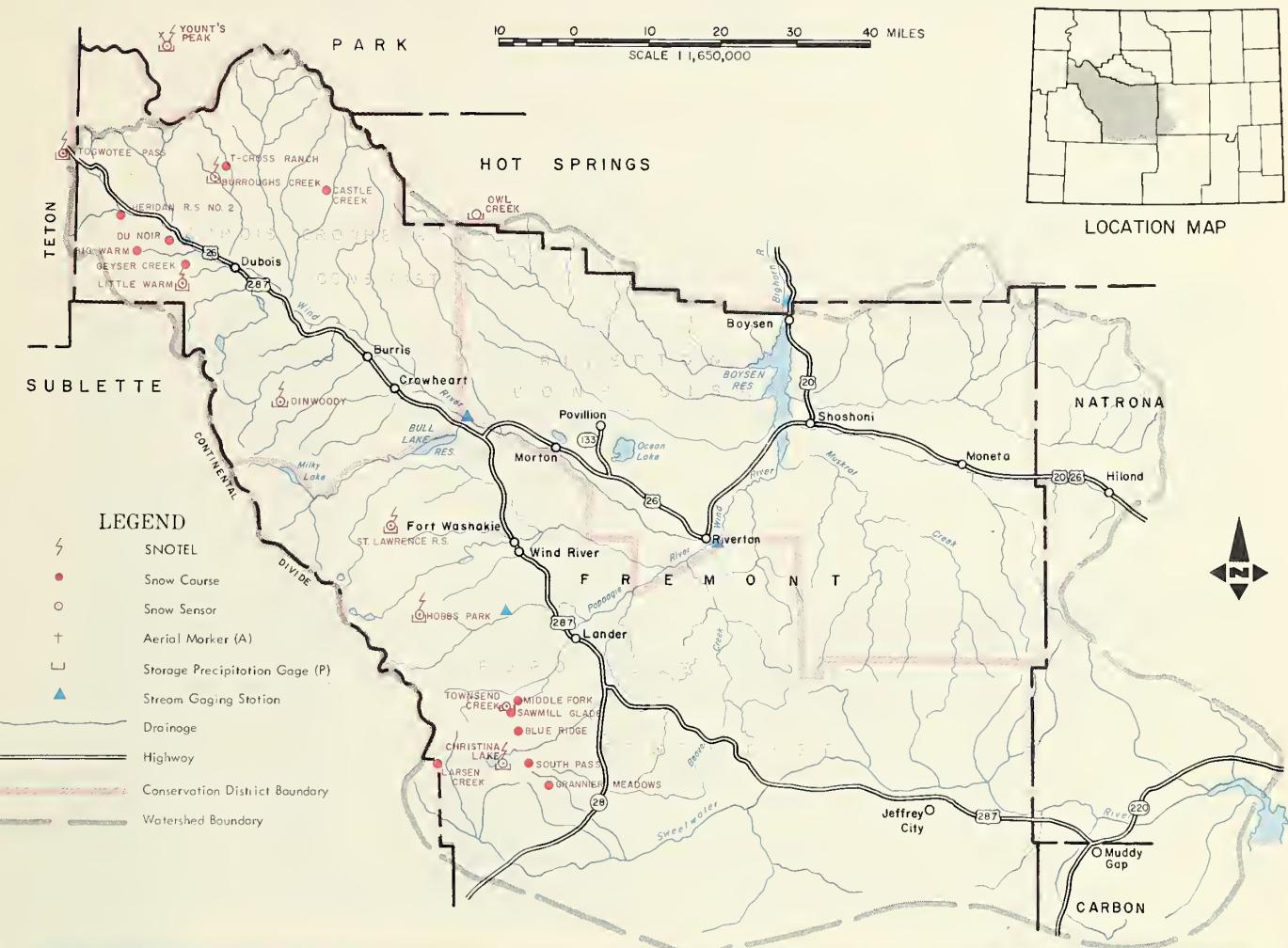
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**WATER SUPPLY OUTLOOK  
FOR THE CONSERVATION DISTRICTS IN THE  
WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED  
IN WYOMING**

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE  
WATER SUPPLY OUTLOOK

MARCH 1, 1980



**YOUR WATER SUPPLY**

SNOWPACK CONDITIONS ON THE UPPER REACHES OF THE BASIN DETERIORATED DURING FEBRUARY WHILE THE SOUTH PASS AREA REMAINED WELL ABOVE AVERAGE. SUMMER STREAMFLOWS WILL RANGE FROM 86% OF NORMAL AT THE HEADWATERS TO 34% ABOVE NORMAL ON THE LITTLE POPO AGIE. PILOT BUTTE STORAGE IS STILL ONLY HALF NORMAL, AND BULL LAKE AT 86% OF ITS AVERAGE LEVEL.

# WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year **	Average +
Wind River near Dubois	95	86	Apr-Sept	85	110
Wind River at Riverton (1)	760	109	Apr-Sept	491	695
Wind River below Boysen (2)	1193	100	Apr-Sept	903	1193
Bull Lake Creek near Lenore (3)	215	114	Apr-Sept	145	189
Little Popo Agie near Lander	71	134	Apr-Sept	45	53

(1) Observed flow plus change in storage in Bull Lake and Pilot Butte Reservoirs and diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.

(3) Observed flow plus change in storage in Bull Lake

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF		Last Year	Average +
		Last Year	Average +		
Upper Wind River	6	76	92		
Popo Agie	4	147	135		
Wind River above Boysen	15	97	103		
Sweetwater River	3	125	137		

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Bull Lake	151.8	77.9	106.4	90.2
Pilot Butte	31.6	7.0	18.4	16.8
Boysen	549.9	313.0	308.2	311.5

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	THIS YEAR		PAST REC.	
				Last Yr.	Ave +	Last Yr.	Ave +
Big Warm Springs	2/27	18	4.0	6.6	5.8		
Blue Ridge	2/26	51	16.4	8.9	10.8		
Burroughs Creek	2/28	38	11.3	14.2	12.8		
Castle Creek	2/28	16	3.8	5.4	-		
Dinwoody	2/28	30	7.3	10.0	9.7		
DuNoir	2/27	25	6.6	9.9	7.2		
Geyser Creek	2/27	19	6.4	9.2	6.3		
Grannier Meadows	2/26	56	18.0	14.6	12.2		
Hobbs Park	2/28	44	13.2	9.3	11.0		
Larsen Creek	2/28	48	14.2	11.8	11.8		
Little Warm	2/27	43	11.8	13.3	13.1		
Middle Fork	2/27	29	6.2	5.7	5.0		
Owl Creek	2/28	19	3.8	3.5	3.9		
Sawmill Glade	2/26	34	10.8	7.9	7.6		
Sheridan Ranger Station	2/27	22	5.8	9.0	6.7		
South Pass	2/26	56	18.1	14.0	12.6		
St. Lawrence R.S.	2/28	23	6.1	5.4	5.6		
T-Cross Ranch	2/28	25	7.4	9.2	6.5		
Togwotee Pass	2/29	65	20.4	23.0	25.2		
Townsend Creek	2/26	35	10.2	6.0	-		
Younts Peak Aerial	2/28	51	15.3	16.2	19.4		

+ 1963-1977 period

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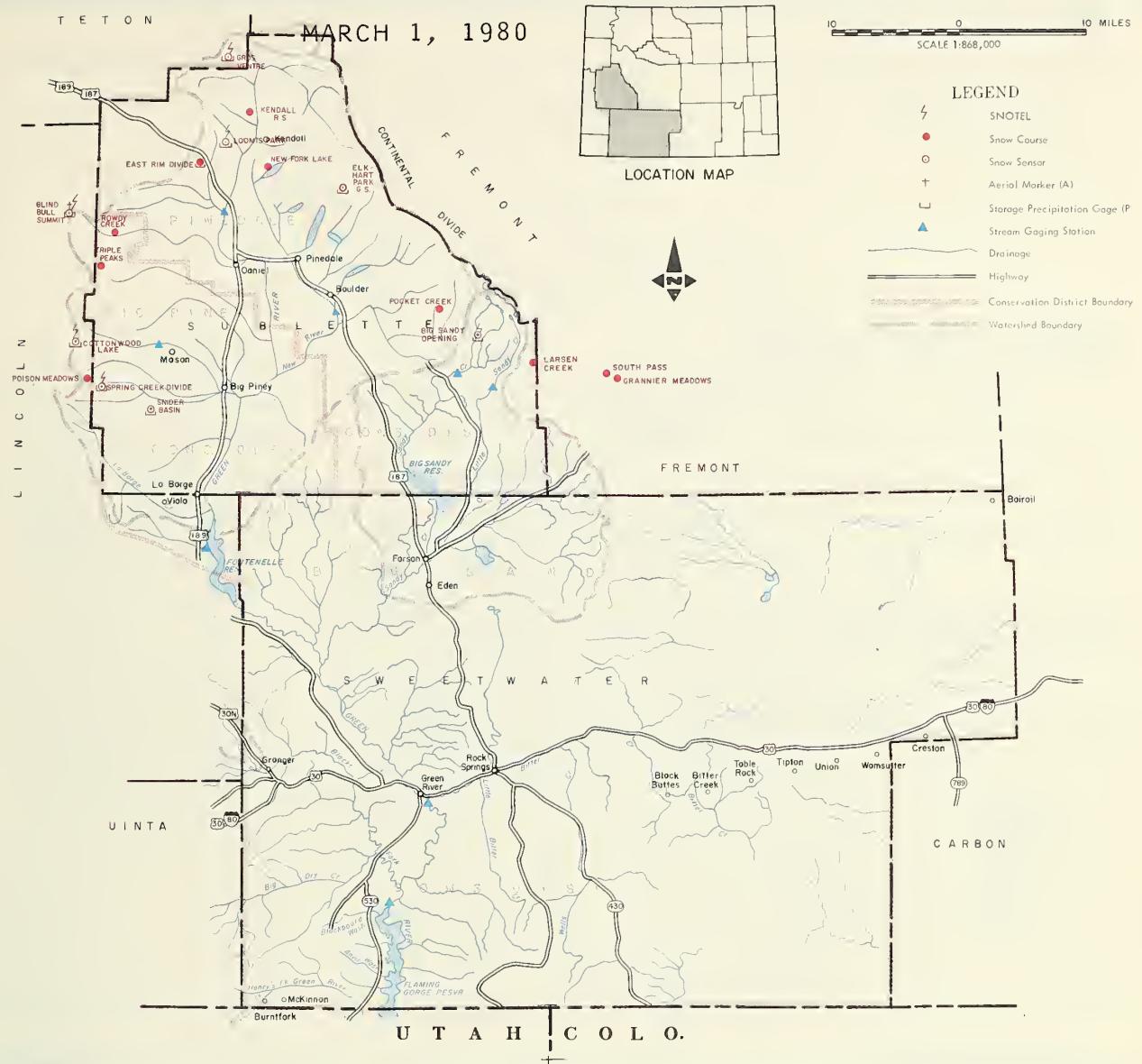
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"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE UPPER GREEN RIVER BASIN IN WYOMING



## YOUR WATER SUPPLY

SNOWPACK CONDITIONS WITHIN THE WATERSHED HAVE NOT IMPROVED FROM LAST MONTH. IN FACT, SNOWS ARE NOW 15% BELOW NORMAL ON THE EAST SIDE. PROJECTED STREAMFLOWS FOR THIS SUMMER REMAIN BELOW NORMAL. THE BIG SANDY RIVER DRAINAGE LOOKS GOOD WITH SLIGHTLY ABOVE AVERAGE RUNOFF EXPECTED. RESERVOIR STORAGE IS NEARING NORMAL LEVELS.

# UPPER GREEN RIVER BASIN IN WYOMING

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average +
Green River at Warren Bridge	275	82	Apr-Sept	237	336
Green River near LaBarge	775	78	Apr-Sept	677	999
Green River near Green River (1)	865	79	Apr-Sept	699	1094
Flaming Gorge Inflow	1380	107	Apr-July	-	1292
LaBarge Creek at LaBarge Meadows	8.5	97	Apr-Sept	6.8	8.8
Big Sandy River near Big Sandy	75	119	Apr-Sept	50	63

(1) Observed flow plus change in storage in Fontenelle Reservoir.

\*\* Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Upper Green, East Side	8	75	85
Upper Green, West Side	6	101	102
Big Sandy	2	101	122

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Eden	11.8	- No Report -	2.8	
Big Sandy	38.3	- No Report -	19.3	
Fontenelle	344.8	206.4	226.9	203.1*
Flaming Gorge	3749.0	2244.4	2501.7	-

\*Less than 15 years

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Water Cont (In.)	THIS YEAR		PAST REC	
				Last Yr.	Ave +	Last Yr.	Ave +
Big Sandy Opening	2/28	54	15.4	15.5	11.7		
Blind Bull Summit Aerial	2/28	74	22.2	24.4	23.2		
Cottonwood Lake Aerial	2/28	52	13.5	14.3	16.8		
East Rim Divide	2/28	41	7.5	13.7	12.0		
Elkhart Park G.S.	2/28	41	10.4	12.0	12.0		
Grammier Meadows	2/26	56	18.0	14.6	12.2		
Gros Ventre Summit	2/28	32	6.3	9.9	10.1		
Kendall Ranger Station	2/28	38	6.4	12.7	11.2		
Larsen Creek	2/28	48	14.2	11.8	11.8		
Loomis Park	2/28	53	15.1	17.2	16.1		
New Fork Lake	2/28	33	6.4	12.4	10.0		
Pocket Creek	2/28	44	12.4	12.0	11.0		
Poison Meadows	2/28	79	24.2	22.8	25.0		
Rowdy Creek	2/28	61	18.9	20.0	20.2		
Snider Basin R.S.	2/28	50	15.8	16.6	15.0		
South Pass	2/26	56	18.1	14.0	12.6		
Spring Creek Divide Pillow	2/28	-	23.5	19.2	-		
Triple Peaks	2/28	71	23.1	20.8	22.7		

+ 1963-1977 period

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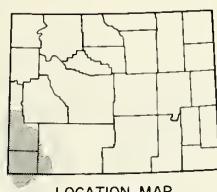
# WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS IN WYOMING

MARCH 1, 1980

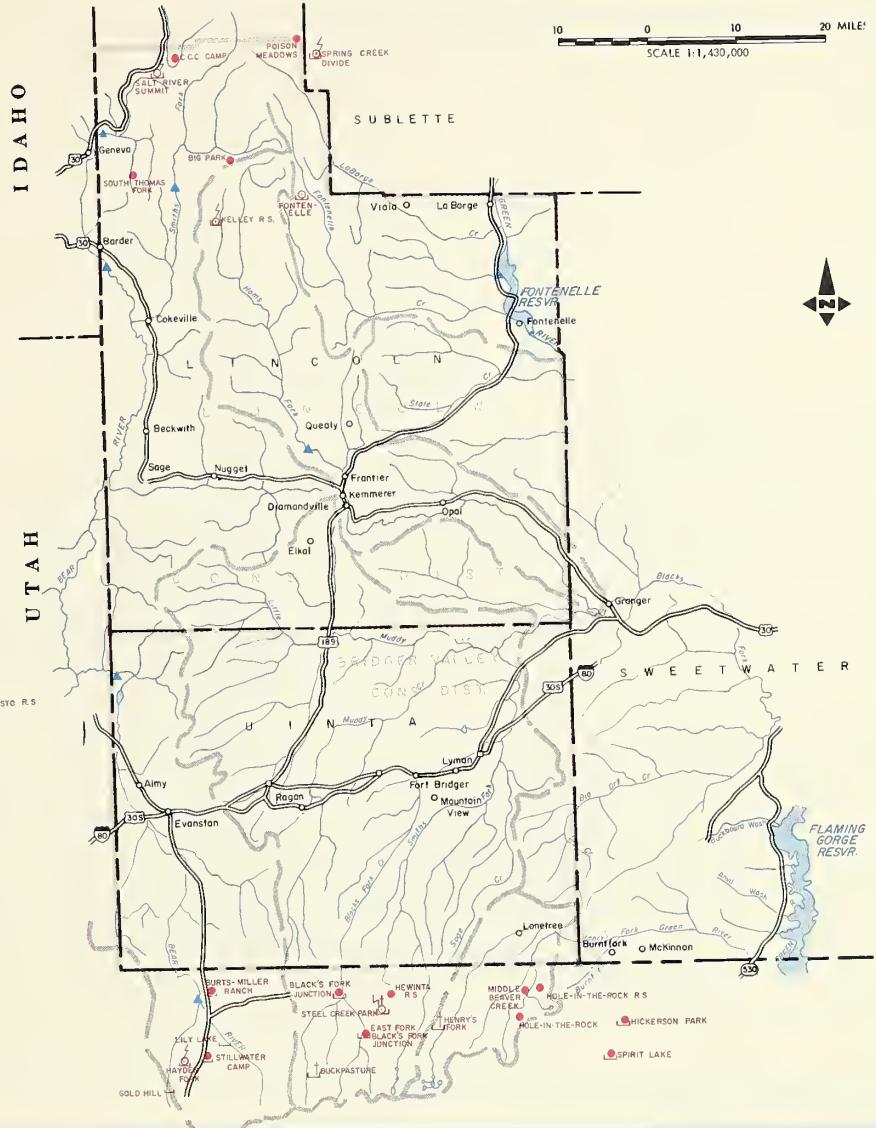
## LEGEND

The legend includes the following entries:

- ⚡ SNOTEL
- Snow Course
- Snow Sensor
- † Aerial Marker (A)
- Storage Precipitation Gage (P)
- ▲ Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary



## LOCATION MAP



## YOUR WATER SUPPLY

SNOWPACK FIGURES ON THE NORTH SLOPE OF THE UNTAH MOUNTAINS RANGE UPWARDS OF 200%, WHILE THE SMITHS AND THOMAS FORKS ARE AT 102%. STREAMS HEADING IN THE UNTAHS CAN EXPECT WELL ABOVE NORMAL FLOWS WHILE THE REMAINDER OF THE BASIN WILL SEE NEAR NORMAL FLOWS. RESERVOIR STORAGE IS STILL BELOW LAST YEAR'S LEVELS.

# LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year **	Average +
LaBarge Creek at LaBarge Meadows	8.5	97	Apr-Sept	6.8	8.8
Green River near Green River (1)	865	79	Apr-Sept	699	1094
Hams Fork below Pole Creek, near Frontier	70	97	Apr-Sept	55	72
Blacks Fork near Millburne	118	128	Apr-July	80	92
Flaming Gorge Inflow	1380	107	Apr-July	-	1292
Smiths Fork near Border	123	102	Apr-Sept	90	120
Thomas Fork near State Line	37	106	Apr-Sept	24	35
Bear River at Utah-Wyoming State Line	127	111	Apr-July	93	114
Henry's Fork near Linwood, Utah	73	135	Apr-Sept	-	54

(1) Observed flow plus change in storage in Fontenelle Reservoir.

\*\* Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Upper Bear River	5	112	122
Smith & Thomas Forks	4	96	102

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average
Fontenelle	344.8	206.4	226.9	203.1*
Flaming Gorge	3749.0	2244.4	2501.7	-
Viva Naughton	42.4	N.R.	20.2	29.3

\*Less than 15 years

SNOW DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	Last Yr. Ave +
Big Park	2/28	57	17.6	17.6	17.5
Black's Fork GS-East Fk.	2/27	41	11.1	7.8	7.4
Black's Fork Junction	2/27	46	13.1	8.0	7.4
Burts-Miller Ranch	2/27	29	8.6	5.4	-
CCC Camp	2/28	40	11.0	13.2	11.1
Hayden Fork	2/26	61	18.0	14.0	12.7
Hewinta Guard Station	2/27	43	12.1	8.0	7.3
Hickerson Park	2/29	38	10.4	6.2	5.0
Kelley Ranger Station	2/28	59	18.2	18.0	15.3
Poison Meadows	2/28	79	24.2	22.8	25.0
Salt River Summit	2/28	52	13.8	15.4	14.4
South Thomas Fork	2/28	46	13.4	14.6	14.3
Spirit Lake	2/27	51	14.7	11.7	9.7
Steel Creek Park	2/27	63	17.3	12.0	12.8
Stillwater Camp	2/27	51	13.7	9.9	-
Trial Lake	2/26	100	30.4	22.3	20.0

+ 1963-1977 period

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## S N O W C O U R S E D A T A

MARCH 1980

SNOW COURSE	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1963-77
AFTON RANGER STATION	2/26	17	4.4	5.4	4.0
ALBANY	2/25	57	18.0	18.2	13.4*
ARIZONA	2/26	52	16.1	18.7	16.7
ARRASTRE LAKE PILLOW		NO REPORT		21.2	-
ASTER CREEK	2/27	75	23.5	24.9	25.9
BALD MOUNTAIN	3/02	44	10.6	18.1	19.3
BASE CAMP	2/28	49	14.8	19.7	18.4
BATTLE MOUNTAIN	2/26	41	10.6	11.7	-
BEARLODGE DIVIDE	3/05	4	0.4	3.9	2.8*
BEAR TRAP AERIAL		NO REPORT		6.9	7.9
BIG GOOSE	3/02	25	5.8	6.1	6.2
BIG PARK	2/26	52	17.6	17.6	17.5
BIG SANDY OPENING	2/28	54	15.4	15.5	11.7
BIG SANDY OPENING PILLOW	2/28	-	13.3	14.6	-
BIG WARM SPRINGS	2/27	18	4.0	6.6	5.8
BLACKROCK	2/29	52	16.0	18.3	16.6
BLACK'S FORK GS-EAST FK	2/27	41	11.1	7.8	7.4
BLACK'S FORK JUNCTION	2/27	46	13.1	9.0	7.4
BLIND BULL SUMMIT AERIAL	2/28	74	22.2	24.4	23.2
BLUE RIDGE	2/26	51	16.4	8.9	10.8
BONE SPRING DIVIDE	3/02	43	10.7	16.0	15.9
BOXELDER	3/01	30	7.6	6.0	6.2
BROOKLYN LAKE	2/27	68	22.8	26.3	18.0
BROOKLYN LAKE PILLOW		NO REPORT		-	-
BRYAN FLAT	2/28	28	8.0	11.6	8.4
BUCK CREEK	3/01	34	8.6	6.6	9.1*
BURGESS RANGER STATION	3/02	24	5.1	6.8	7.1
BURROUGHS CREEK	2/28	38	11.3	14.2	12.8
BURROUGHS CREEK PILLOW	2/28	-	11.0	13.2	-
BURTS-MILLER RANCH	2/27	29	8.6	5.4	-
BUTTER HILL		NO REPORT		15.9	-
CAMERON PASS	2/25	70	22.2	26.7	22.6
CANYON	3/03	46	10.3	14.4	14.3
CANYON PILLOW		NO REPORT		-	-
CARTER MOUNTAIN	2/28	18	4.4	4.4	3.7
CASPER MOUNTAIN	2/28	36	13.6	8.7	11.8
CASPER MOUNTAIN PILLOW	2/28	-	12.2	7.8	-
CASTLE CREEK	2/28	16	3.8	5.4	-
CCC CAMP	2/28	40	11.0	13.2	11.1
CHAMBERS LAKE	2/25	39	11.5	10.7	7.7
CLOUD'S PEAK AERIAL	3/01	-	8.9E	6.8	9.6
COLUMBINE LODGE	2/26	80	21.7	24.7	19.9
COOKE STATION	2/29	51	13.7	19.3	18.0
COTTONWOOD LAKE AERIAL	2/28	52	13.5	14.3	16.8

SNOW COURSE	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1963-77
COULTER CREEK	2/28	52	16.0	23.8	19.8*
CREVICE MOUNTAIN	2/28	31	7.3	11.1	9.8
DARBY CANYON	3/01	54	16.7	19.6	19.8E
DEADMAN HILL	2/29	51	15.6	15.4	12.9
DEEP CREEK		NO REPORT		16.9	-
DEEP LAKE	2/26	108	35.4	43.2	32.8*
DINWOODY	2/28	30	7.3	10.0	9.7
DINWOODY PILLOW		NO REPORT		11.7	-
DOME LAKE	3/02	28	6.1	8.1	8.2
DU NOIR	2/27	25	6.6	9.9	7.2
EAST ENTRANCE	3/01	33	9.0	10.7	9.7
EAST RIM DIVIDE	2/28	41	7.5	13.7	12.0
ELBO RANCH	2/27	35	9.0	13.4	-
ELKHART PARK G.S.	2/28	41	10.4	12.0	12.0
ELKHORN	2/26	80	23.1	-	-
ELK RIVER	2/28	65	19.2	19.7	15.4
EVANS	2/28	42	12.2	11.1	9.3
FISHER CREEK	2/29	65	25.3	33.3	34.3
FISHER CREEK PILLOW	2/29	-	25.6	31.4	32.3
FIVE SPRINGS FALLS	2/28	15	3.1	5.9	7.3
FOUR MILE MEADOWS	2/29	34	9.0	12.0	11.3
FOXPARK	2/26	33	9.4	7.7	5.9
FRED'S MOUNTAIN	2/28	59	18.0	20.9	16.9E
GENEVA PASS AERIAL		NO REPORT		12.1	14.5
GEYSER CREEK	2/27	19	6.4	9.2	6.3
GLADE CREEK	2/27	57	17.5	24.5	19.8
GRANNIER MEADOWS	2/26	56	18.0	14.6	12.2
GRASSY LAKE	2/27	75	24.3	34.3	30.6
GREYS BOUNDARY	2/28	29	8.4	15.2	10.3
GROS VENTRE SUMMIT	2/28	32	6.3	9.9	10.1
GROS VENTRE SUMMIT PILLO	2/28	-	9.8	10.5	-
GROVER PARK DIVIDE	2/28	37	10.4	12.6	11.0
HAIRPIN TURN	2/27	58	19.4	23.5	14.6
HASKINS CREEK		NO REPORT		38.6	-
HAYDEN FORK	2/26	61	18.0	14.0	12.7E
HEWINTA GUARD STATION	2/27	43	12.1	8.0	7.3
HICKERSON PARK	2/29	38	10.4	6.2	5.0
HOBBS PARK	2/28	44	13.2	9.3	11.0
HOBBS PARK PILLOW		NO REPORT		11.9	-
HUCKLEBERRY DIVIDE	2/28	55	16.2	23.7	18.8
INDIAN MEADOWS	3/01	82	25.7	32.3	13.9E
JACKPINE CREEK	3/01	54	15.5	21.0	19.6E
JOE WRIGHT	2/25	72	22.0	20.7	19.6
KELLY RANGER STATION	2/28	59	18.2	18.0	15.3
KELLY RANGER STA PILLOW		NO REPORT		-	-
KENDALL RANGER STATION	2/28	38	6.4	13.7	11.2
LA BONTE	3/01	29	7.9	7.4	5.0
LAKE CAMP	3/02	28	6.7	10.2	8.3E
LA PRELE PILLOW		NO REPORT		-	-
LARSEN CREEK	2/28	48	14.2	11.8	11.8*

SNOW COURSE	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1963-77
LEWIS LAKE DIVIDE	2/27	95	30.8	35.4	35.8
LEWIS LAKE DIVIDE PILLOW	2/27	-	26.0	28.1	-
LIBBY LODGE	2/27	42	13.6	17.2	9.9
LITTLE WARM	2/27	43	11.8	13.3	13.1
LITTLE WARM PILLOW	2/27	-	7.8	8.4	-
LOOMIS PARK	2/28	53	15.1	17.2	16.1
LOST LAKE	2/25	47	12.7	12.5	9.5
LUPINE CREEK	2/28	29	5.8	9.8	9.9
MALLO PILLOW	2/29	-	4.3	8.4	-
MARQUETTE CREEK	2/27	21	7.2	5.8	-
MCINTYRE		NO REPORT		-	-
MEDICINE LODGE LAKES	3/01	-	6.3E	11.5	9.9
MIDDLE FORK	2/27	29	6.2	5.7	5.0*
MIDDLE POWDER	3/02	25	6.0	6.4	9.7
MIDDLE POWDER PILLOW		NO REPORT		7.3	-
MILES CREEK		NO REPORT		12.9	11.7E
MONTE CRISTO	2/25	73	24.9	22.7	22.0
MORAN	2/28	35	10.3	15.7	12.0
MORAN BAY	2/28	61	17.8	25.1	19.4
MOSS LAKE	2/26	76	22.6	29.2	20.6*
MOUNT TOM PILLOW	3/03	-	0.4	6.4	-
MUDGY CREEK GUARD STATION		NO REPORT		4.3	2.8
NEW FORK LAKE	2/28	33	6.4	12.4	10.0
NORRIS BASIN	2/28	32	9.0	8.4	10.1
NORTH BARRETT CREEK	2/29	73	20.8	19.0	17.7*
NORTHEAST ENTRANCE	3/01	25	5.9	10.6	9.1
NORTHEAST ENTRANCE PILLOW	3/01	-	6.7	10.3	8.7
NORTH FRENCH CREEK PILLOW	2/29	-	26.1	22.3	19.7E
NORTHGATE	2/28	31	7.6	5.0	5.4
NORTH TONGUE	3/02	35	8.4	12.3	11.5
OLD BATTLE	3/03	102	33.1	43.7	28.5
OLD BATTLE PILLOW		NO REPORT		37.7	-
OLD FAITHFUL	2/28	40	11.5	14.9	-
ONION GULCH	3/01	-	5.2E	7.4	7.8
OWL CREEK	2/28	19	3.8	3.5	3.9*
PARKER'S PEAK AERIAL	2/28	81	25.1	26.4	29.9*
PARK VIEW	2/27	35	8.5	9.2	7.6
PHILLIPS BENCH	2/26	70	20.7	30.4	23.2*
PHILLIPS BENCH PILLOW		NO REPORT		25.3	-
PITCHSTONE PLATEAU AERIAL	2/28	139	44.5	54.8	48.6*
POCKET CREEK	2/28	44	12.4	12.0	11.0*
POISON MEADOWS	2/28	79	24.2	22.6	25.0
POLE MOUNTAIN	2/27	38	11.5	8.5	5.9
POWDER RIVER PASS	3/03	-	6.6E	10.8	10.2*
PURGATORY GULCH	2/26	45	11.7	12.6	8.8*
RABBIT EARS	2/26	83	23.7	23.5	21.0
RANGER CREEK	3/02	24	5.8	8.5	8.7
REUTER CANYON	3/05	28	7.4	10.3	8.6*
ROACH	2/26	69	20.1	18.8	15.0
ROCK CREEK	2/26	85	28.2	30.7	22.0

SNOW COURSE	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1963-77
ROWDY CREEK	2/28	61	18.9	20.0	20.2
RYAN PARK	2/29	41	10.4	10.4	10.2
SALT RIVER SUMMIT	2/28	52	13.8	15.4	14.4
SALT RIVER SUMMIT PILLOW	2/28	-	14.8	14.5	-
SANDSTONE RANGER STATION	2/28	52	14.7	18.4	-
SAWMILL DIVIDE	3/02	35	7.5	10.3	-
SAWMILL GLADE	2/26	34	10.8	7.9	7.6
SHELL CREEK	3/01	-	8.3E	11.3	12.5
SHERIDAN RANGER STATION	2/27	22	5.8	9.0	6.7
SNAKE RIVER STATION	2/27	54	15.5	21.6	18.3
SNIDER BASIN RANGER STA	2/28	50	15.8	16.6	15.0
SNOW KING MOUNTAIN	2/28	39	11.1	16.3	12.9
SOLDIER PARK	3/01	-	4.4E	5.4	4.6
SOUR DOUGH	3/01	-	6.0E	6.2	5.5
SOUTH BRUSH CREEK PILLOW	2/29	-	13.3	10.2	-
SOUTH PASS	2/26	56	18.1	14.0	12.6
SOUTH THOMAS FORK	2/28	46	13.4	14.6	14.3*
SPIRIT LAKE	2/27	51	14.7	11.7	9.7
SPRING CREEK DIVIDE FILL	2/28	-	21.2	19.2	-
STATE LINE	2/28	34	10.1	16.3	12.7
STEAMBOAT POINT	3/02	23	5.7	7.2	6.8
STEEL CREEK PARK	2/27	63	17.3	12.0	12.8*
STILLWATER CAMP	2/27	51	13.7	9.9	-
ST. LAWRENCE RANGER STA	2/28	23	6.1	5.4	5.6
ST. LAWRENCE R.S. PILLOW	2/28	-	7.2	6.8	-
SUCKER CREEK	3/02	30	7.0	8.6	11.3
SWEETWATER MOUNTAIN FILL	2/29	-	3.4	6.8	-
SYLVAN PASS	3/01	39	10.0	11.6	12.2*
T-CROSS RANCH	2/28	25	7.4	9.2	6.5
TETON PASS W.S.	2/26	61	17.4	28.3	21.0*
THUMB DIVIDE	2/27	51	15.1	15.7	18.2
TIMBER CREEK	2/26	11	2.0	3.5	2.4
TOGWOTEE PASS	2/29	65	20.4	23.0	25.2
TOGWOTEE PASS PILLOW	2/29	-	17.6	21.0	-
TOWNSEND CREEK	2/26	35	10.2	6.0	-
TRIAL LAKE	2/26	100	30.4	22.3	20.0
TRIPLE PEAKS	2/28	71	23.1	20.8	22.7
TURPIN MEADOWS	2/29	29	8.1	11.7	9.6
TWENTY-ONE MILE	2/28	38	10.0	14.5	16.6
TWO OCEAN PLATEAU AERIAL	2/28	60	18.6	19.4	28.0*
TYRELL RANGER STATION		NO REPORT		8.0	7.5
UPPER SPEARFISH		NO REPORT		7.4	6.7
WARREN PEAK	3/05	23	4.6	7.4	8.7*
WEBBER SPRING	3/03	75	22.5	32.5	18.3
WEBBER SPRING PILLOW		NO REPORT		32.6	-
WEST YELLOWSTONE	2/27	33	8.6	11.5	11.1
WHISKEY CREEK		NO REPORT		-	-
WHITE MILL	2/29	66	18.8	25.0	25.0
WHITE MILL PILLOW	2/29	-	17.6	23.1	20.8
WILLOW CREEK PASS	2/27	47	12.8	13.7	10.2
WOLVERINE	2/27	36	9.7	15.8	10.7*
WOOD ROCK GUARD STATION	3/02	29	5.7	7.7	9.1
YOUNG'S RANCH AERIAL	2/28	52	14.6	17.8	15.7*
YOUNTS PEAK AERIAL	2/28	51	15.3	16.2	19.4*

\* Less than 15 years

E Estimated figure

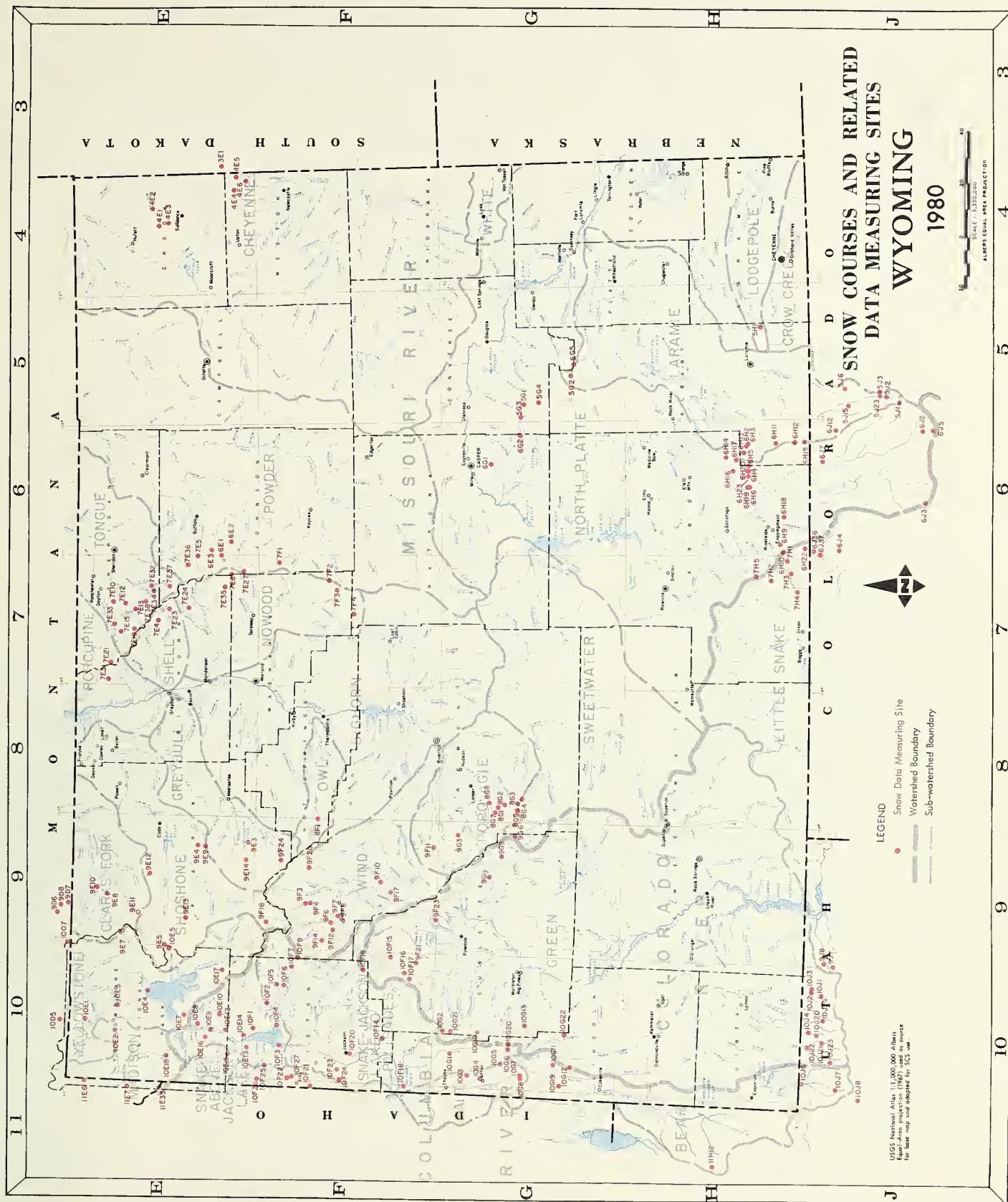
# BASIC DATA SUPPLEMENT 2

## PRECIPITATION (Inches) FOR MONTH OF FEBRUARY

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average +
Arrastré Lake	10280	- No Report -	3.50	-	
Bald Mountain	9380	3/02	2.00	-	-
Battle Mountain	7440	- No Report -	-	-	
Bearlodge Divide (Alva) (NWS)	4390	2/29	0.75	-	0.93
Big Sandy Opening	9080	2/28	2.00	2.75	1.65*
Blind Bull Summit	8650	2/29	4.20	3.70	-
Bone Springs Divide	9350	2/29	2.00	3.60	-
Brooklyn Lake	10220	2/27	4.38	4.00	3.56
Burgess R.S.	7880	3/02	1.50	-	-
Burroughs Creek	8750	2/28	2.50	3.00	-
Canyon	7940	- No Report -	4.88	-	
Carter Mountain	7950	2/28	1.00	0.60	0.86*
Casper Mountain	7850	2/28	1.56	-	2.37
Dinwoody	10160	- No Report -	-	-	
Dome Lake	8870	3/02	1.75	1.20	-
East Rim Dividw	7930	3/06	2.00	-	1.25
Elkhart Park G.S.	9400	2/28	2.25	3.00	1.80*
Grassy Lake	7265	2/27	7.50	7.85	5.12
Gros Ventre Summit	8750	2/28	1.88	1.25	-
Grover Park Divide	7000	2/28	2.60	3.50	2.78*
Haskins Creek	8975	- No Report -	-	-	
Hobbs Park	10100	2/28	2.75	1.00	-
Kelley Ranger Station	8180	2/28	3.75	-	2.40*
Lewis Lake Divide	7850	2/27	6.70	7.90	5.68*
Little Warm	9620	2/27	1.00	1.20	-
Loomis Park	8240	- No Report -	3.50	-	
Louis Lake	8500	2/26	1.50	1.00	2.13*
Middle Powder	7760	- No Report -	0.80	-	
Moran (NWS)	6500	2/29	1.74	2.14	1.97
North French Creek	10125	2/29	6.44	4.50	3.46*
Old Battle	9920	3/03	1.38	-	5.44*
Onion Gulch	8780	- No Report -	-	-	1.24*
Owl Creek	8975	2/28	0.62	1.25	-
Phillips Bench	8200	2/28	4.75	3.00	-
Pole Mountain	8360	2/26	0.70	0.40	1.30*
Powder River Pass	9480	- No Report -	1.75	1.70	
Salt River Summit	7700	2/28	3.44	3.56	2.92
Sandstone R.S.	8150	- No Report -	-	-	
Shell Creek	9580	- No Report -	-	-	
Snake River Station (NWS)	6920	2/29	2.92	3.89	2.74
Snider Basin	8060	2/28	2.00	-	2.55
South Brush Creek	8440	2/29	3.19	1.70	-
Spring Creek Divide	9000	2/28	4.75	4.25	-
St. Lawrence R.S.	8960	2/28	1.25	0.60	-
Sucker Creek	8880	3/02	1.75	1.60	-
Sweetwater Mountain	5860	2/29	1.90	1.38	-
Sylvan Lake	7100	3/01	4.00	-	-
Timber Creek	7950	2/26	0.20	-	0.53*
Togwotee Pass	9580	2/29	3.20	3.90	3.96
Townsend Creek	8700	2/26	1.88	-	-
Warren Peak	6520	3/05	1.10	1.56	0.89*
Webber Spring	9250	- No Report -	-	-	
Wolverine	7650	2/27	3.00	3.50	-

\* Average contains less than 15 years





## SNOW COURSES AND RELATED DATA MEASURING SITES

1980

Alberta Equal Area Projection

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## INDEX TO WYOMING SNOW COURSES AND DATA SITES

DRAINAGE BOUNDARY AND COURSE NAME	WORKING ELEV.	ELEV.	SEC. LT.	LOCATION NAME	RANGE LONG.	LOCATION NAME	ELEV.	SEC. LT.	LOCATION NAME	ELEV.	SEC. LT.	LOCATION NAME		
<b>MISSOURI RIVER DRAINAGE</b>														
Black Bear m	11035	7950	27	15S	5E	Tongue River (continued)	7560	29	56N	57N	7	27N	117N	
North Basin	10022	7500	44°05'			Steamboat Point	7880	43°44'		104°24'			33	112
Old Faithful	10118	7500	44°27'			Sucker Creek	8400	44°41'		107°27'			14	116
Old Shale m	11016	7150	31	11S	5E	Rock G.S.							25	2N
West Laramie m	11157	6700	34	11S	5E	Powder River							6	10N
<b>Yellowstone</b>						Bear Trap	7900	3	45N	104°55'			9400	1N
						Clouds Peak	7850	43°24'		107°05'			9400	25
						Hansen Sawmill	6603*	3760	33	50N			9350	7
						Middle Powder	7760	9	42N	84N			9350	33
						Muddy Creek G.S.	662	7720	31	48N	84N		9350	33
						Onion Gulch	7870	8780	31	48N	85N		9350	32
						Powder River Pass	755	9480	48N	105°22'			9350	31
						South Doggs	661	8460	48°21'	107°00'			9350	29
									104°15'			9350	14N	
<b>Yellowstone</b>	103*	7940	44°44'			Sweetwater	8860	19	30N	104°05'			9900	17
	1005	8400	22	9S	9E	Lassen Creek	9020	42°36'		109°05'			10300	10
	905	6560	44°29'			South Pass	9340	13	30N	101W			9800	5
	104P	7780	44°33'										9800	9E
	105P	7380	44°35'											
	106P	7000	30	9S	5E									
	107P	6500	44°41'											
	108P	7100	44°29'											
	109P	7980	44°22'											
	107A*	9860	44°09'											
	108A*	9830	44°09'											
<b>Clark's Fork</b>	9610*	5275	19	43°47'	9S	Tetromie River	6711	14	14N	70N			8300	8300
	9610*	5275	19	43°47'	9S	Broadway Lake	6730	10385	2	108N			8300	8300
	9611*	6300	5100	50N	50E	Cloudy Pass	6711	10200		75W			8300	8300
	9612*	8159	11	95	14S	Headmen Hill C	6165*	516*		12N			8300	8300
	9613*	9400	9444			Evans C	6185	9080	4	12N			8300	8300
	9614*	8700	18	95	15E	Fogpark	6112	9060	21	13N			8300	8300
	9615*	7650	44°48'			Halpin Turn	6112	9460	19	16N			8300	8300
	9616*	7000	1	107N		Lily Lodge	6113	8750	29	16N			8300	8300
	9617*	8570	29	42N		Lost Lake c	6123	9300	32	18N			8300	8300
	9618*	8750	19	43N		McNary c	6115	9100	35	18N			8300	8300
	9619*	8400	19	43N		Poudre Mountain	6112	8900	15	18N			8300	8300
	9620*	8400	23	42N		Rocky Peak	5605*	7900	27	27N			8300	8300
	9621*	8760	23	38N									8300	8300
	9622*	8500	6	107W									8300	8300
	9623*	9620	24	41N									8300	8300
	9624*	7420	24	41N									8300	8300
	9625*	8740	18	95	14S	Pole Mountain	5180	7830	23	15N			8300	8300
	9626*	7720	3	101W									8300	8300
	9627*	8900	15	31N									8300	8300
	9628*	8610	13	101W									8300	8300
	9629*	8600	13	101W									8300	8300
	9630*	8780	28	44N									8300	8300
	9631*	7950	23	47N									8300	8300
	9632*	8700	42°41'										8300	8300
	9633*	8920	23	42N									8300	8300
	9634*	8980	10	47N									8300	8300
	9635*	8900	15	45N									8300	8300
	9636*	8900	15	45N									8300	8300
	9637*	7950	23	47N									8300	8300
	9638*	8700	42°41'										8300	8300
	9639*	8975	29	43N									8300	8300
	9640*	8980	9	30N									8300	8300
	9641*	10100	22	25									8300	8300
	9642*	8620	24	38N									8300	8300
	9643*	7420	24	41N									8300	8300
	9644*	8740	18	95	14S								8300	8300
	9645*	7720	3	101W									8300	8300
	9646*	8760	10	47N									8300	8300
	9647*	8750	10	47N									8300	8300
	9648*	8750	10	47N									8300	8300
	9649*	8750	10	47N									8300	8300
	9650*	8750	10	47N									8300	8300
	9651*	8750	10	47N									8300	8300
	9652*	8750	10	47N									8300	8300
	9653*	8750	10	47N									8300	8300
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	9660*	8750	10	47N									8300	8300
	9661*	8750	10	47N									8300	8300
	9662*	8750	10	47N									8300	8300
	9663*	8750	10	47N									8300	8300
	9664*	8750	10	47N									8300	8300
	9665*	8750	10	47N									8300	8300
	9666*	8750	10	47N									8300	8300
	9667*	8750	10	47N									8300	8300
	9668*	8750	10	47N									8300	8300
	9669*	8750	10	47N									8300	8300
	9670*	8750	10	47N									8300	8300
	9671*	8750	10	47N									8300	8300
	9672*	8750	10	47N									8300	8300
	9673*	8750	10	47N									8300	8300
	9674*	8750	10	47N									8300	8300
	9675*	8750	10	47N									8300	8300
	9676*	8750	10	47N									8300	8300
	9677*	8750	10	47N									8300	8300
	9678*	8750	10	47N									8300	8300
	9679*	8750	10	47N									8300	8300
	9680*	8750	10	47N									8300	8300
	9681*	8750	10	47N									8300	8300
	9682*	8750	10	47N									8300	8300
	9683*	8750	10	47N									8300	8300
	9684*	8750	10	47N									8300	8300
	9685*	8750	10	47N									8300	8300
	9686*	8750	10	47N									8300	8300
	9687*	8750	10	47N									8300	8300
	9688*	8750	10	47N									8300	8300
	9689*	8750	10	47N									8300	8300
	9690*	8750	10	47N									8300	8300
	9691*	8750	10	47N									8300	8300
	9692*	8750	10	47N									8300	8300
	9693*	8750	10	47N									8300	8300
	9694*	8750	10	47N									8300	8300
	9695*	8750	10	47N									8300	8300
	9696*	8750	10	47N									8300	8300
	9697*	8750	10	47N									8300	8300
	9698*	8750	10	47N									8300	8300
	9699*	875												

# THE FOLLOWING ORGANIZATIONS COOPERATE IN THE WYOMING SNOW SURVEY WORK

## STATE

Conservation Districts of Wyoming  
State Engineer of Wyoming  
Irrigation Districts of Wyoming  
University of Wyoming  
Department of Atmospheric Resources  
Department of Agricultural Engineering

## FEDERAL

U. S. Department of Agriculture  
Soil Conservation Service  
Forest Service

U. S. Department of Commerce  
NOAA, National Weather Service

U. S. Department of Interior  
Bureau of Reclamation  
Geological Survey  
National Park Service  
Bureau of Indian Affairs

## PRIVATE

Teton Environmental School  
Utah Power and Light Company

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.



WYOMING  
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SERV. - 1951

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SOIL CONSERVATION SERVICE  
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## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

—  
"The Conservation of Water begins  
with the Snow Survey"